## AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

- 1. (Currently Amended) A compound comprising:
  - a polymeric chain; and
  - [[an acid labile]] a dissolution inhibitor group attached to the polymeric chain at an anhydride linkage.
- 2. (Currently Amended) The compound of claim 1, wherein the anhydride linkage comprises two acyl groups bonded to an oxygen atom, wherein a first of the two acyl groups is attached to the polymeric chain, and wherein a second of the two acyl groups is attached to the [[acid labile]] dissolution inhibitor group.
- 3. (Original) The compound of claim 2, wherein at least one of the acyl groups comprises a carbonyl group.
- 4. (Currently Amended) The compound of claim 1, wherein the anhydride linkage comprises two carbonyl groups bonded to an oxygen atom, wherein a first of the two carbonyl groups is attached to the polymeric chain, and wherein a second of the two carbonyl groups is attached to the [[acid labile]] dissolution inhibitor group.
- (Original) The compound of claim 1, wherein the anhydride linkage comprises sulfur.
- (Original) The compound of claim 5, wherein the anhydride linkage comprises a sulfonic acyl group.

- (Original) The compound of claim 5, wherein the anhydride linkage comprises a sulfinic acyl group.
- (Original) The compound of claim 5, wherein the anhydride linkage comprises two acyl groups bonded to a sulfur atom.
- (Original) The compound of claim 1, wherein the anhydride linkage comprises
  phosphorous.
- (Original) The compound of claim 9, wherein the anhydride linkage comprises a phosphoryl acyl group.
- (Currently Amended) The compound of claim 1, wherein the [[acid labile]]
   dissolution inhibitor group comprises an alicyclic group.
- (Original) The compound of claim 11, wherein the alicyclic group comprises a ring selected from an alkylated monocyclic ring and an alkylated polycyclic ring.
- 13. (Original) The compound of claim 12, wherein the alicyclic group comprises a group selected from methyl cyclopentyl, methyl cyclohexyl, methyl adamantyl, and norbornyl.
- 14. (Original) A composition comprising:

the compound of claim 1; and

a radiation sensitive acid generator capable of generating an acid if exposed to radiation.

15. (Original) A method comprising:

forming a layer of the composition of claim 14 over a substrate;

exposing the layer to patterned radiation;

heating the exposed layer, and

developing the exposed layer.

16. (Currently Amended) A compound comprising:

a polymeric chain including polyhydroxystyrene;

a dissolution inhibitor attached to the <u>polyhydroxystyrene of the polymeric chain</u> at an anhydride linkage.

- 17. (Original) The compound of claim 16, wherein the anhydride linkage comprises two acyl groups bonded to an oxygen atom, wherein a first of the two acyl groups is attached to the polymeric chain, and wherein a second of the two acyl groups is attached to the dissolution inhibitor.
- 18. (Original) The compound of claim 16, wherein the anhydride linkage comprises sulfur.
- 19. (Original) The compound of claim 16, wherein the anhydride linkage comprises phosphorous.
- 20. (Original) A composition comprising on a solvent-dry basis:

from 80 to 99.9 weight percent of the compound of claim 16; and

from 0.1 to 20 weight percent of a photoacid generator.

Claims 21-30 (Cancelled)

31. (Previously Presented) A method comprising:

Attorney Docket No. 42P18695 Application No. 10/815,606 forming a layer of the composition of claim 20 over a substrate;

exposing the layer to patterned radiation;

heating the exposed layer; and

developing the exposed layer.